

0582

O I P E

RAW SEQUENCE LISTING DATE: 03/06/2001  
PATENT APPLICATION: US/09/684,016 TIME: 13:02:59

Input Set : D:\Unigene20000612.txt  
Output Set: N:\CRF3\03062001\I684016.raw

**ENTERED**



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265	gctaatggct	ttaatgccta	ttggcataatg	tatcttgcc	ctgatccc	tcagagaaac	240
267	aaagtctcat	cagtgttca	acaggcttca	aatcatggc	tcaacattgc	cagaacttgg	300
269	gcttcagt	atggttggata	tcaacacta	caaatcttc	ctggatctt	caattacc	360
271	atgtttcagg	gettggattt	cgaatagcc	gaagcaagaa	aatatggat	caagatgttgc	420
273	tttgcgttgg	tyataacta	tgagaacatg	ggttggaaa	aacatgtat	ggaatggca	480
275	aggagtccagg	gacagtccat	aaattcttag	gtgactttt	ttacaaaatt	cggtctcgagg	540
277	ggatactaca	aaaaccacat	caaggctgta	cttacaagac	gtaatagcat	cactggaytt	600
279	gcttacaaag	acgacccaaac	tataatggct	ttggaaactt	tgaatgagat	tagtgtccct	660
281	tctgtatca	cagaaggac	agtccaggct	ttgtatcact	agatggcc	ttacactgaa	720
283	tccatagat	gaaaccactt	gttggaaact	ggtctggagg	ttttcttgc	ccgtcaaaag	780
285	cctcaagtcta	acccaaactt	caatgttag	accgattca	ttgccaacaa	ccaaatcccc	840
287	ggcattgatt	tcgcaacagt	gcactcttac	ccggaccaat	ggctatcaag	ttcttagttt	900
289	gaggacccaa	tctcattttt	aggccgttgg	ctggatgac	acatccaaga	tgcacagaa	960
291	acccttcac	aggcacttct	atttgcggag	tttgcgttattt	ccacaaqaq	ttatggtggc	1020
293	aactcaacac	caaggatc	gttattcaac	acagttatatt	ctgcaat	ctcatacaya	1080
295	aggcgttgcg	gggtctgtgt	ttttggctt	ttttggcaac	ttatggtca	aggaatggat	1140
297	tcttacatcg	acggttacga	agttgtctta	gatgagagcc	cttcaacggc	taatttgtac	1200
299	getcaagagt	ctcaaaaact	aaaccaattt	cgcaagatgt	acgccagact	tagaaacatt	1260
301	gagaatgttgc	atgaagctaa	gcaattttaga	ggtggaaact	gaatatgata	cgtcttaact	1320
303	accatgatat	atatatatag	agagagagag	agagatgttgc	gggagttaga	aacttttttt	1380
305	gataatctt	ttgcgtgtgg	attaatcttc	agaatagygt	gttccaaataa	tcttagtggc	1440
307	aagaatttgc	tgttattttc	gtcaaaatgt	tccaaatgt	gggttctata	aatgcgtat	1500
309	acataactat	ttattatttg	gatatttgc	gagaaacttt	gtaatgcac	aacttagcatt	1560
311	tcactcacac	tatattgtcg	ycaaatgtat	gtactttgtc	taaactgttt	ataaaatgg	1620
313	ctgtgtacg	taatttgcag	tgcttcaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaggccgg	1680
315	ccgcgc						1686
318	<210>	SEQ ID NO:	8				
319	<211>	LENGTH:	1661				
320	<212>	TYPE:	DNA				
321	<213>	ORGANISM:	Glycine max				
323	<400>	SEQUENCE:	8				
325	ctcgacgcgc	tcgacgcgt	tcggctcgag	gaacaccctt	cacaagccac	ttcttatttgc	60
327	ggagtttgg	atttccaaac	agagttatgg	tggcaactca	acaccaaggg	atcgttatt	120
329	caacacggta	tattcagca	tatactcatc	agcaagcagt	ggcggggtc	ctgttggtgg	180
331	cctgtttgg	caacttatgg	ctcaaggat	ggatctttat	cgagacggt	acgagggtgt	240
333	cttagatgc	aggcccttca	cggtcaattt	gattgtctca	aaactaaacc	300	
335	aattcgaag	atgtacggca	gactcggaaa	cattgagaaa	tggatgaag	ctaagcaat	360
337	tagagatga	aactgtatatt	atatatatat	atatagagag	agagagagag	agagaagggt	420
339	gagttagaaa	ctttaattt	taacttatac	gtatggca	gaattgect	ttattacaag	480
341	tgaatgttgc	tacaaaatgc	ataaacataa	ctattataga	gatatatgc	gagaaacttt	540
343	gtaaatgtac	agcttagcatt	tcatctact	ttatgttgc	agtgtatgt	cttatgtcaa	600
345	aacttataa	aatgtggct	ttgttgcatt	tgaatgtct	catataactt	ttccatcttt	660
347	gatgtttgc	ttttttatgt	taatgtgtat	ggccgcacta	atgtgtaaat	cttccttgc	720
349	cctgtcgt	tcttgcacac	catcggtt	tgctatgtac	acatttctt	ctatcttgc	780
351	attcttgc	attatgtcaat	ttctgttttt	agtatttgc	ccgacaccaa	ttggaaacctt	840
353	ccctcttgc	accagagat	caatttctca	ctcagttgt	taatagttgc	caccatcat	900
355	catgtatcc	tgaatgttca	caccagact	caaaatgttgc	egttactccaa	caatagatgt	960
357	tgttgcgt	cactccctca	agaagcaacc	atgtatgtat	attgtatcat	caatcttgc	1020
359	ttttttact	ttgttgcgt	gttggatatt	qqqqqaaqtq	aaaaaaqqtq	tctttqkqate	1080

RAW SEQUENCE LISTING  
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```

361 atagaattca aattttaggag gctgttctgt tagagcaaga tttgcataa agaaggactt 1140
363 tatagtccca atatcctccc aqtagtcatt gacaataat gctggacat tgtagtcatt 1200
365 cacagcagat gggataattt cagatccaaat gtcattgcatt gagaacatt tccatcttaa 1260
367 tagttgcacg aagggttccat ttcttacac ac gtagacaccc atggatgcaa tataaggatg 1320
369 tttttctgtct tctttgtggca ataaccctaa aagagtgggtg tcaacacgca ttgcctttag 1380
371 atctgatccc tttaggtttt ctgcaaaactg tataatccgt ctgtcttat caattttcat 1440
373 cagttccatag tctgtatccc qactgtccat catggtaca catggaaactg tgatatcagc 1500
375 atttgttgcataatgtctt gtaaaaatgtt catgtatgtcc atccggtaaa gatgtatcacc 1560
377 agaaaggatc aatatatgtt caacatctt gtctttggca ttctcaaaaa cccatataaa 1620
379 ttgtcttaca gcateggcg 1661
382 <210> SEQ ID NO: 9
383 <211> LENGTH: 407
384 <212> TYPE: DNA
385 <213> ORGANISM: Glycine max
387 <400> SEQUENCE: 9
389 tagaaacatt gagaaggatgaa atgaagctaa gtctggcgta catcttgca attcggttta 60
391 gtttttggaa ctcttggcg 120
393 cgttaaccgtc tcgataagat gtagccgaa cttagaaaca ttgagaaggta gaatggaaatgt 180
395 aagcaattttaa ggggtggaaa ctgatatgtat gtagtgcattt ccattatgtat atatataatata 240
397 agagagagag aqagqagatg aaggagatgaa aactttaa ttgataactt atttgcgtgt 300
399 ggattaaatct tcagaatgaa gtgtcccaat aatcttagtg gcaagaatttgccttattt 360
401 tctgtcaaaaa aaaaaaaaaaaaa aaaaaaaaaaaaa aaggggcgcc accgcct 407
404 <210> SEQ ID NO: 10
405 <211> LENGTH: 614
406 <212> TYPE: DNA
407 <213> ORGANISM: Glycine max
409 <400> SEQUENCE: 10
411 cttttaccatt ctccatggag tggcggggaa ttattatgtt tataactataa tataataaca 60
413 taattatattat tatagtaactt actactttttaa aatatactta atttccccacc 120
415 ttaccctaca atcaaggaca gaatctatgc aatttaaaag ccaacaacgt tgagagaagc 180
417 caagtgtgaa gacagacagt gagaatgtat gatggatgtt cggttccctt tggttctt 240
419 ggttctctat gtcacagtgg agcagatgtt gctactccac cacgtatggcc 300
421 gtttggaaaa acaaggaggag tgcacgttat gctgtatgggg agtccctact atgctaattgg 360
423 cttaaatgtt tattggctt tgcacatgtt cttctgtatcc tccctggaaa acaaaaatctc 420
425 atccgttattt caacaggctt caaatcatgg actcaacattt gccagaactt gggcccttc 480
427 tgcgttggaa tatcaaccccc tacaatatctt tccatggatcc tacaatgttca 540
429 gggcttggat ttgcataatag ccgaaggcaag aaaatatggg atcaagatgg tggttgcgtt 600
431 ggtgaataac tatg 614
434 <210> SEQ ID NO: 11
435 <211> LENGTH: 1587
436 <212> TYPE: DNA
437 <213> ORGANISM: Glycine max
439 <400> SEQUENCE: 11
441 cccacgcgtc cyaaaaaaaaa agatatgttgc ctccacagaa acgctataag cttaaggctt 60
443 taatgtttttt gtttggat aatggggccc caacactctt ccatcttacaa ttttacaaac 120
445 ctttatgttgc aqtagtgcatt gctgtgcattt cttttcttgc cttatgttgcatttcc 180
447 gagggggaaa tactcgatgtt ggttccactg gctatcttca caatgttgcattt cggggaaagg 240
449 gaatccacac cttcattgtat gacgacgagc cccagggaaagg ggacgaaatc acgacagcac 300
451 ttggaggaggc tatttggaaatg tccaagatgtt tcatcatgtt gctcttgcattt aactacgcatt 360

```

FYI

**Please Note:**

**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.**

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/684,016

DATE: 03/06/2001  
TIME: 13:03:00

Input Set : D:\Unigene20000612.txt  
Output Set: N:\CRF3\03062001\I684016.raw

L:8 M:270 C: Current Application Number differs, Replaced Current Application No  
L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:562 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:1266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31  
L:1268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31  
L:1270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31  
L:1453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36  
L:1778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45  
L:1780 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45  
L:1782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45  
L:1873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:1926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48  
L:1928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48  
L:2947 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70  
L:2949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70  
L:3286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78  
L:3329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79  
L:3331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79  
L:4094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94  
L:4151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96  
L:4994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112  
L:4996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112  
L:5459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123  
L:5461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123  
L:5654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127  
L:5755 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130  
L:5757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130  
L:6154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139  
L:6397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144  
L:6403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144  
L:7218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:162  
L:7361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:165  
L:7776 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:173  
L:7877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175  
L:7879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175  
L:7881 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175  
L:7928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176  
L:7930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176  
L:7932 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176  
L:7977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177  
L:8508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:185

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L:8510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:185  
L:8603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:187  
L:8605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:187  
L:8768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:192